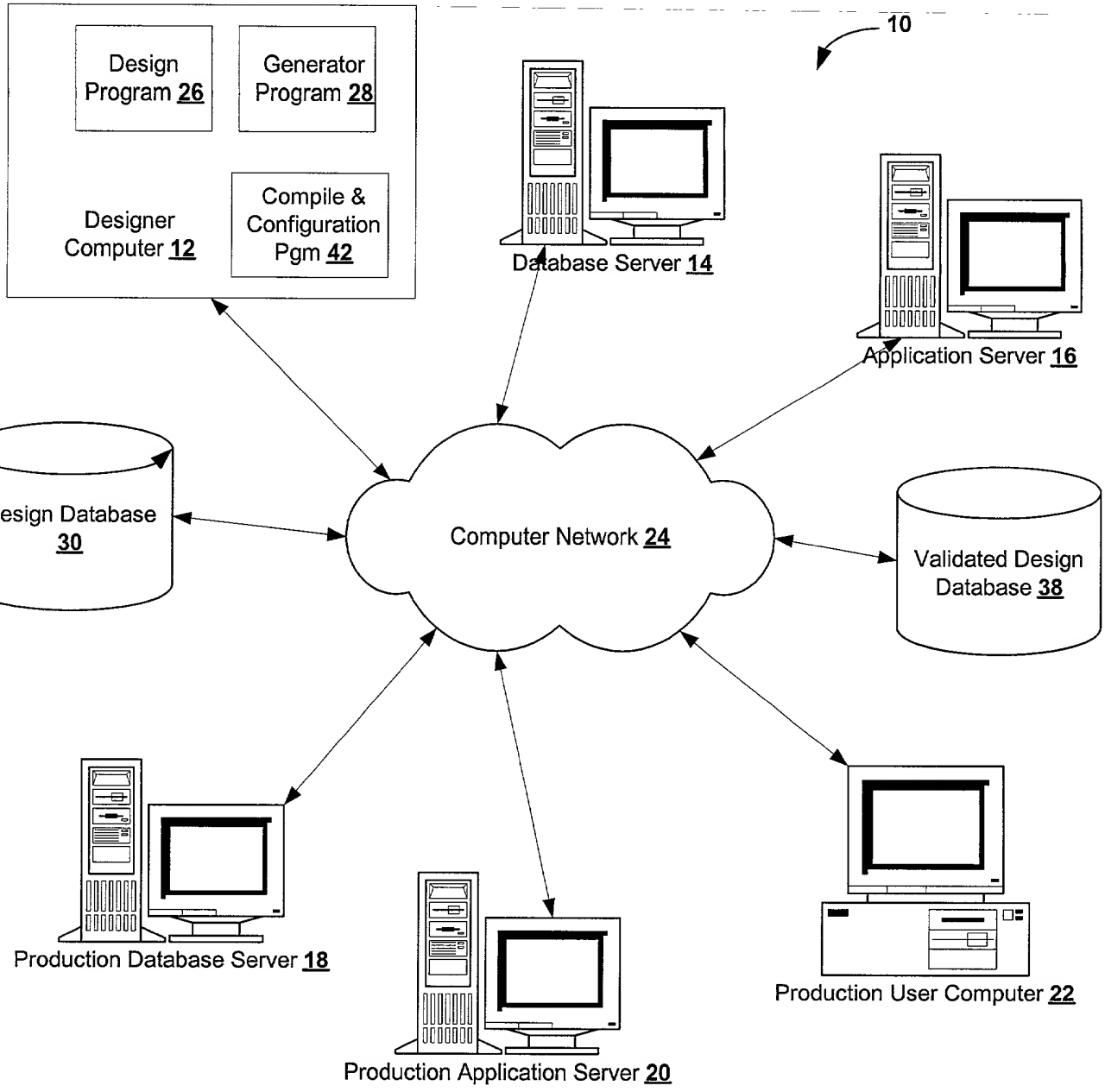

10
Design Program 26
Generator Program 28
Designer Computer 12
Compile & Configuration Pgm 42
Database Server 14
Application Server 16
Design Database 30
Computer Network 24
Validated Design Database 38
Production Database Server 18
Production Application Server 20
Production User Computer 22

Fig. 1

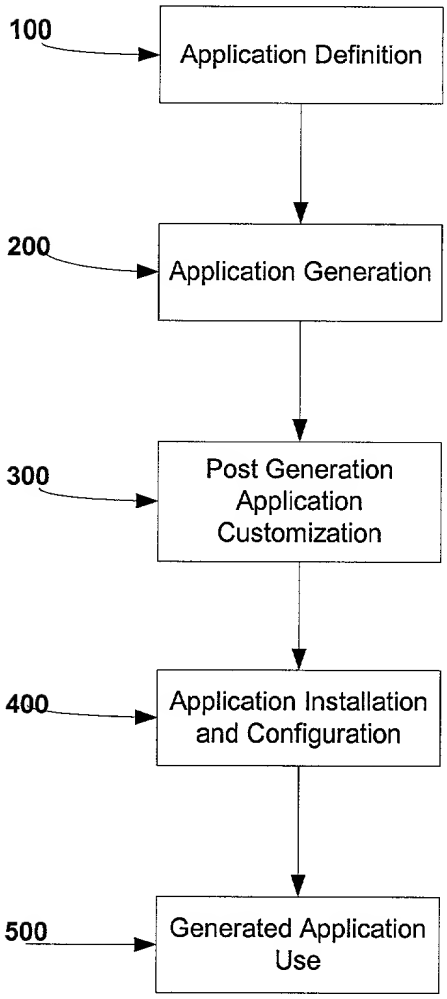
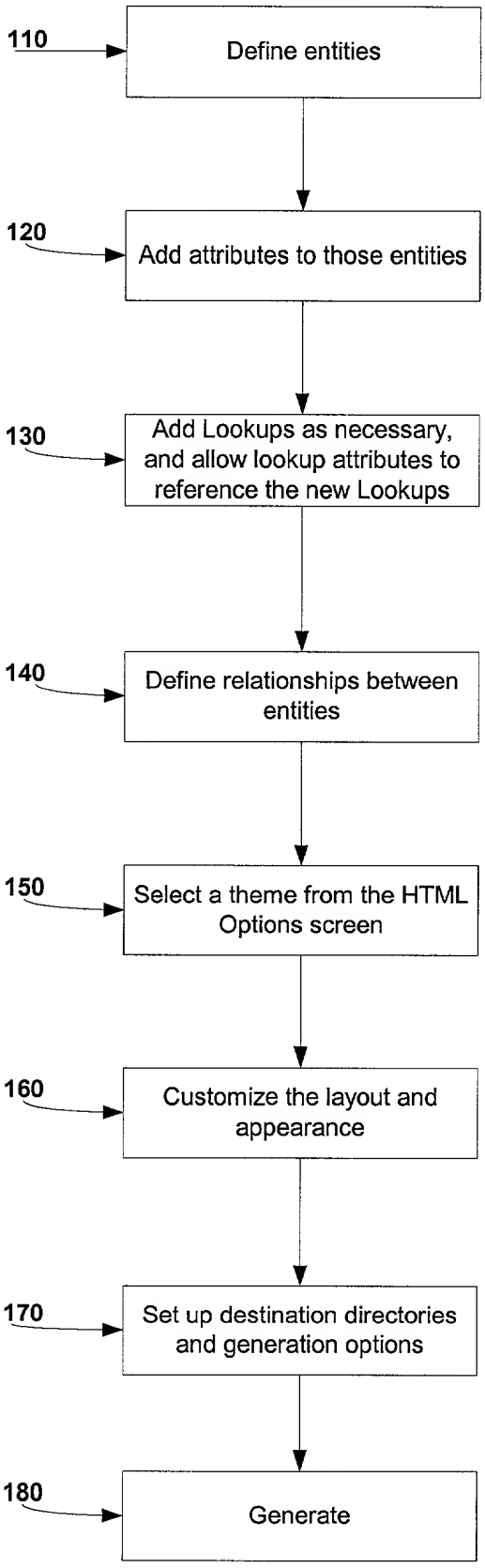

100
Application Definition
200
Application Generation
300
Post Generation Application Customization
400
Application Installation and Configuration
500
Generated Application Use

Fig. 2

Fig. 3


110
Define entities
120
Add attributes to those entities
130
Add Lookups as necessary, and allow lookup attributes to reference the new Lookups
140
Define relationships between entities
150
Select a theme from the HTML Options screen
160
Customize the layout and appearance
170
Set up destination directories and generation options
180
Generate

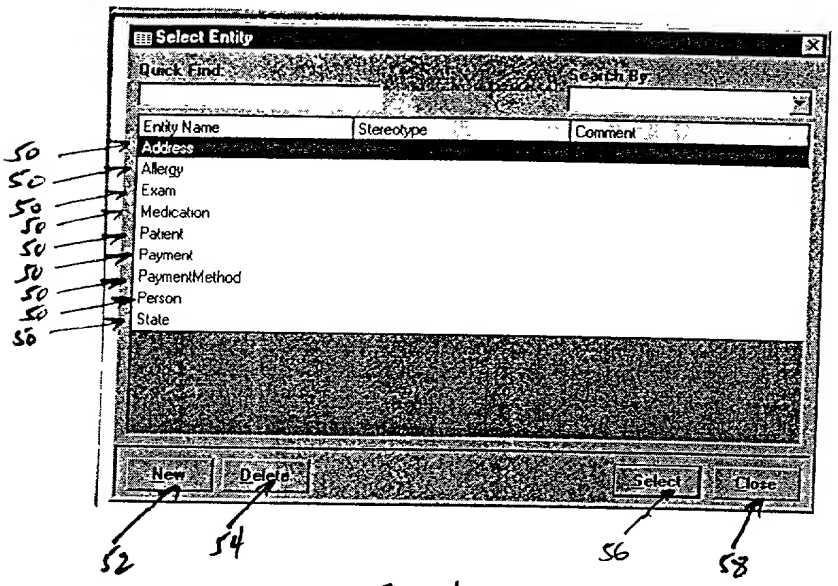

Select Entity
Quick Find:
Search By
Entity Name
Stereotype
Comment
Address
Allergy
Exam
Medication
Patient
Payment
PaymentMethod
Person
State
New
Delete
Select
Close
50
52
54
56
58

Fig. 4a

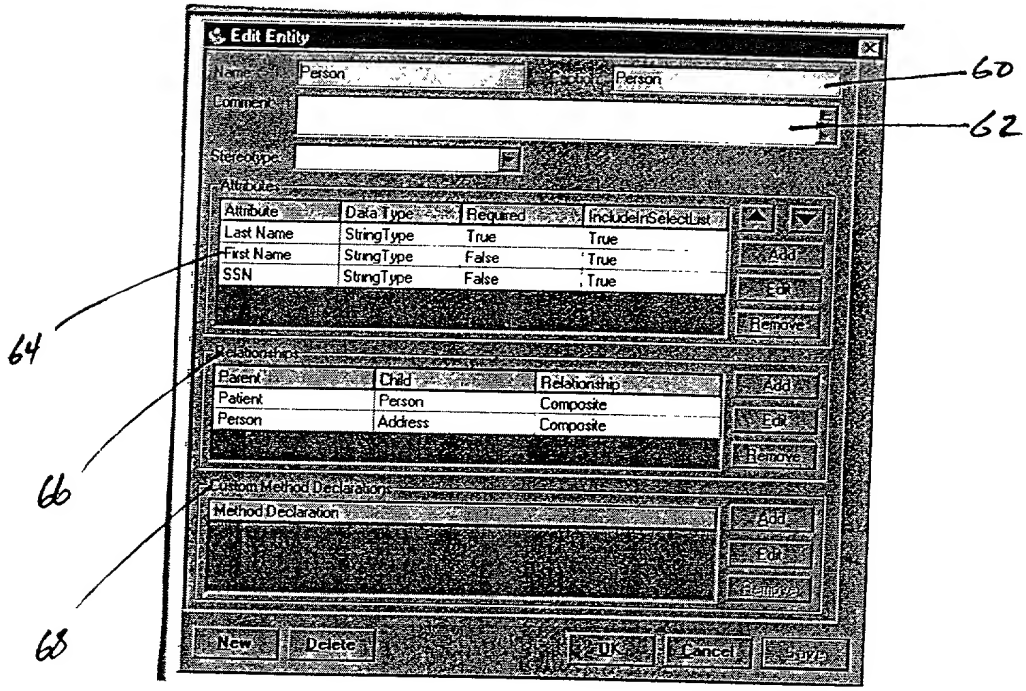

Edit Entity
Name
Person
Comment
Stereotype
Attributes
Attribute
Data Type
Required
IncludeInSelectList
Last Name
StringType
True
True
First Name
StringType
False
True
SSN
StringType
False
True
Add
Edit
Remove
Relationships
Parent
Child
Relationship
Patient
Person
Composite
Person
Address
Composite
Custom Method Declaration
Method Declaration
New
Delete
OK
Cancel
60
62
64
66
68

Fig. 4b

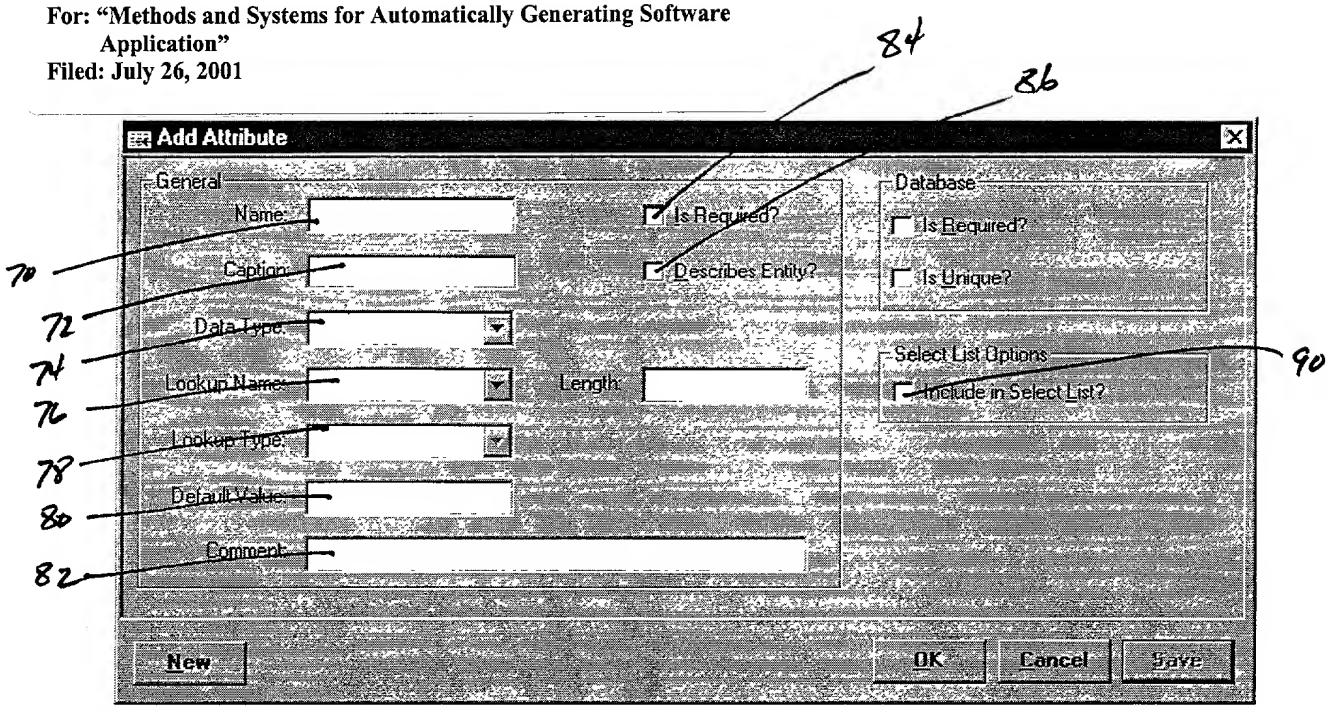

84
86
Add Attribute
General
Name:
Caption:
Data Type:
Lookup Name:
Lookup Type:
Default Value:
Comment:
Length:
Is Required?
Describes Entity?
Database
Is Required?
Is Unique?
Select List Options
Include in Select List?
70
72
74
76
78
80
82
90
New
OK
Cancel
Save

Fig. 5

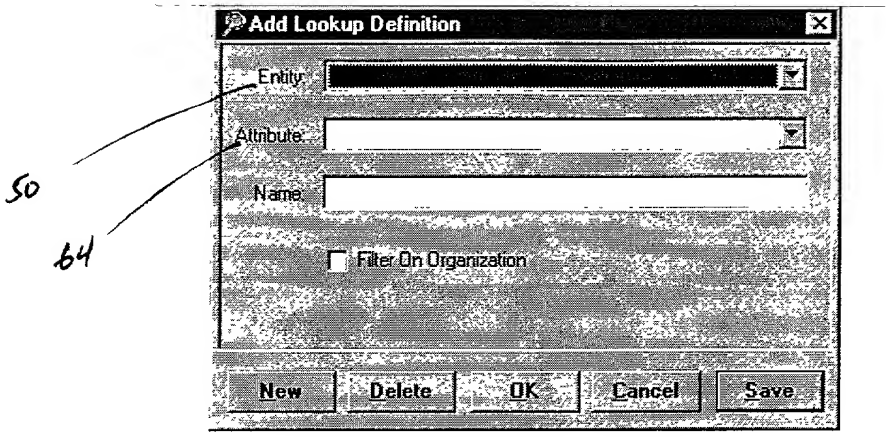


Fig. 6a

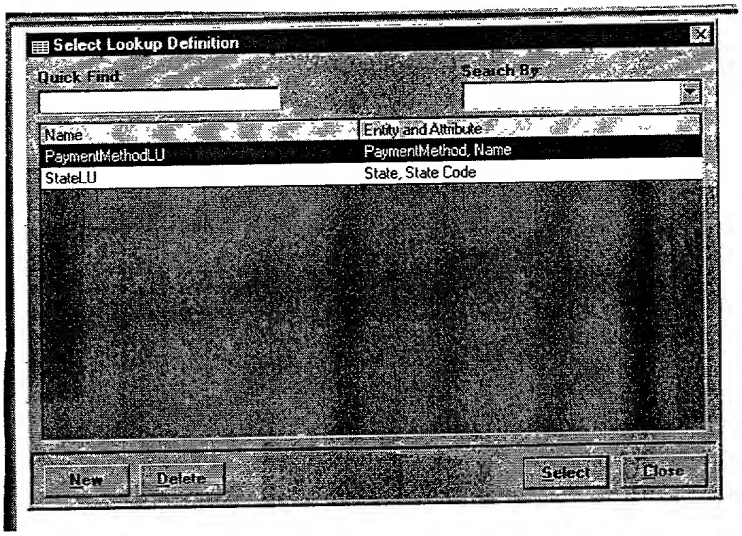


Fig. 6b

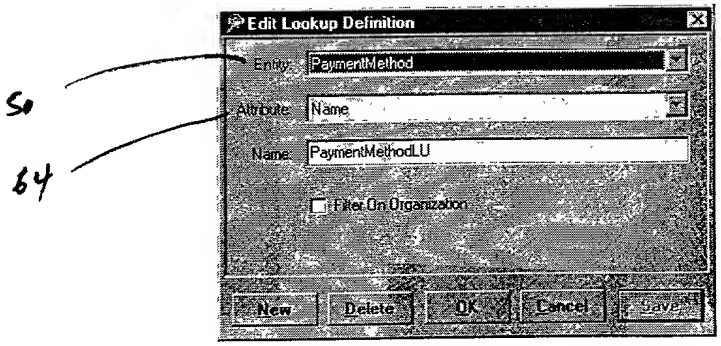


Fig. 6c

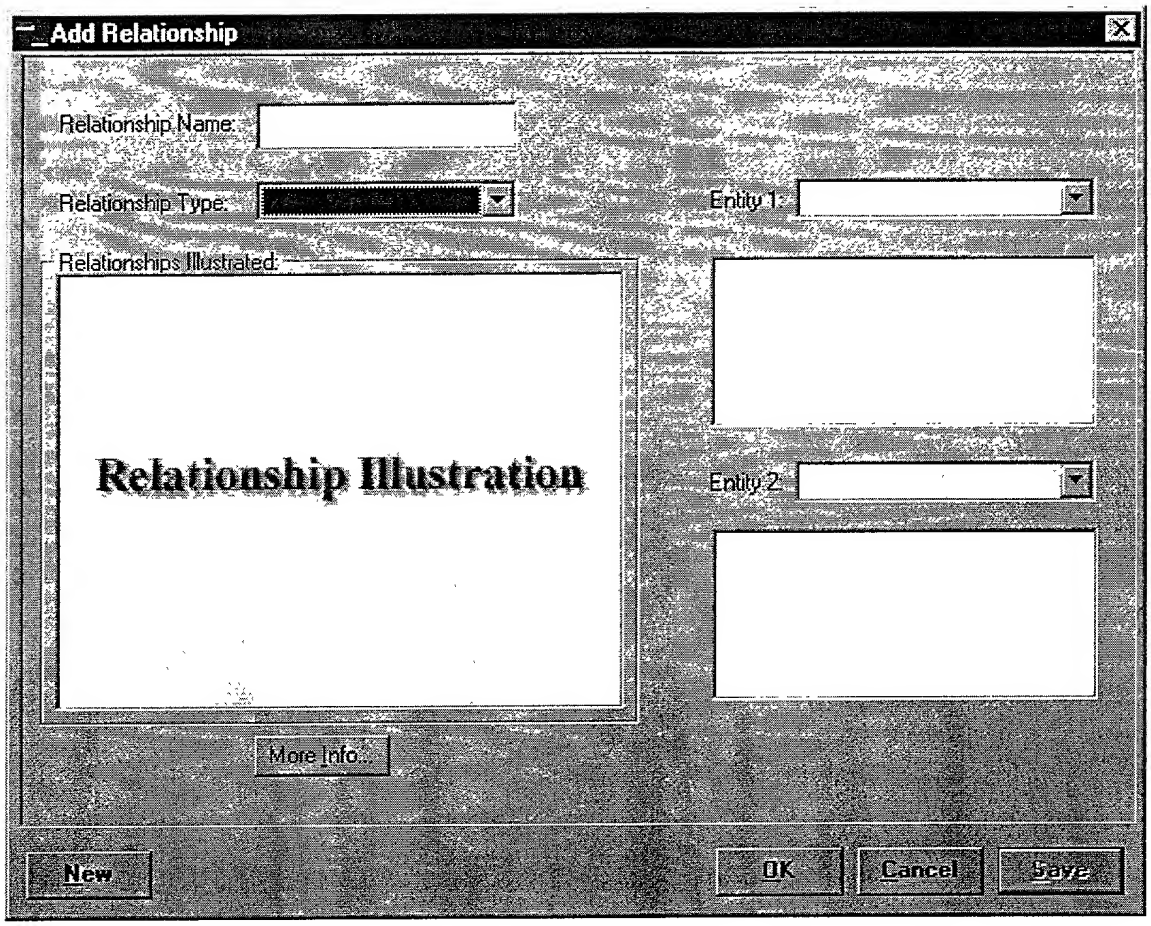

Add Relationship
Relationship Name:
Relationship Type:
Entity 1:
Relationships Illustrated:
Relationship Illustration
Entity 2:
More Info...
New
OK
Cancel
Save

Fig. 7a

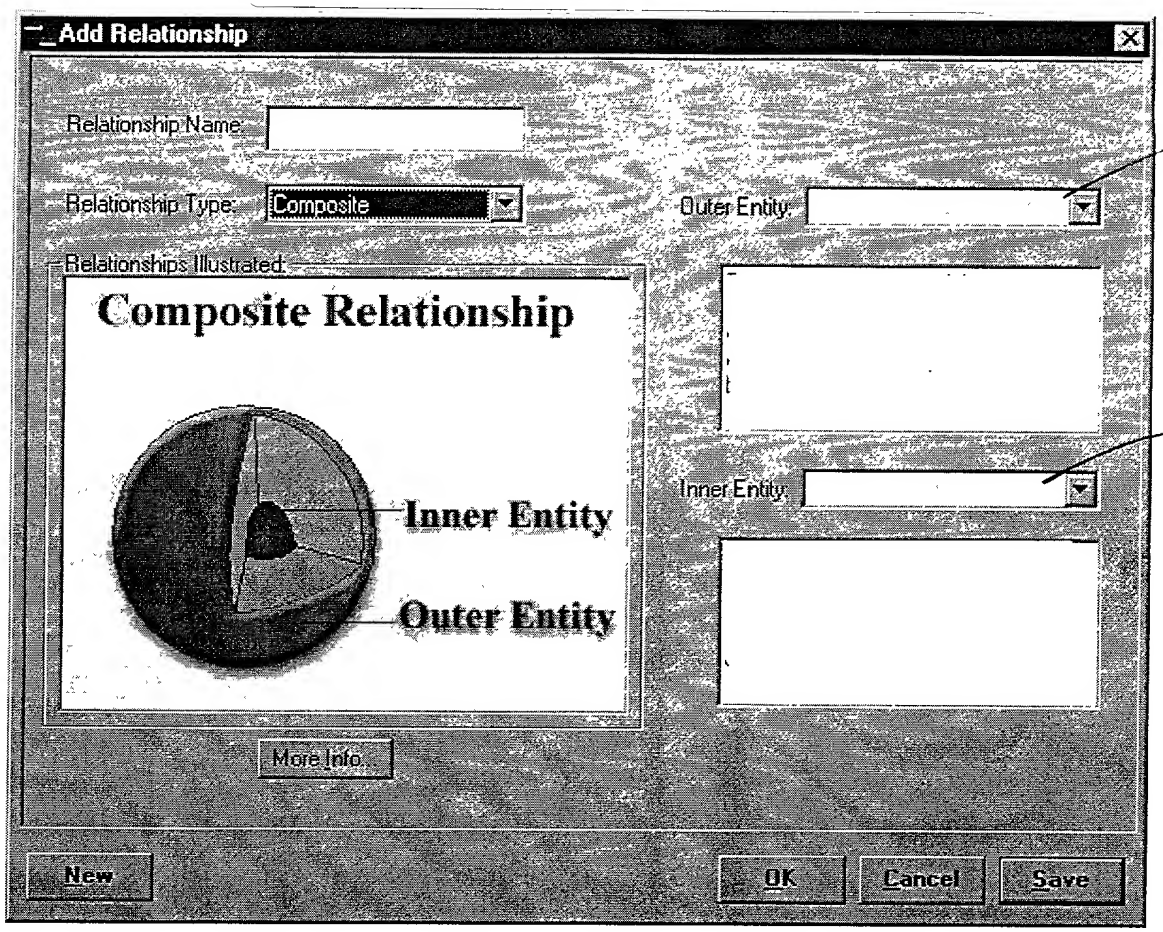

Add Relationship
Relationship Name:
Relationship Type:
Composite
Outer Entity:
Relationships Illustrated:
Composite Relationship
Inner Entity
Outer Entity
Inner Entity:
More Info...
New
OK
Cancel
Save
102
104

Fig. 7b

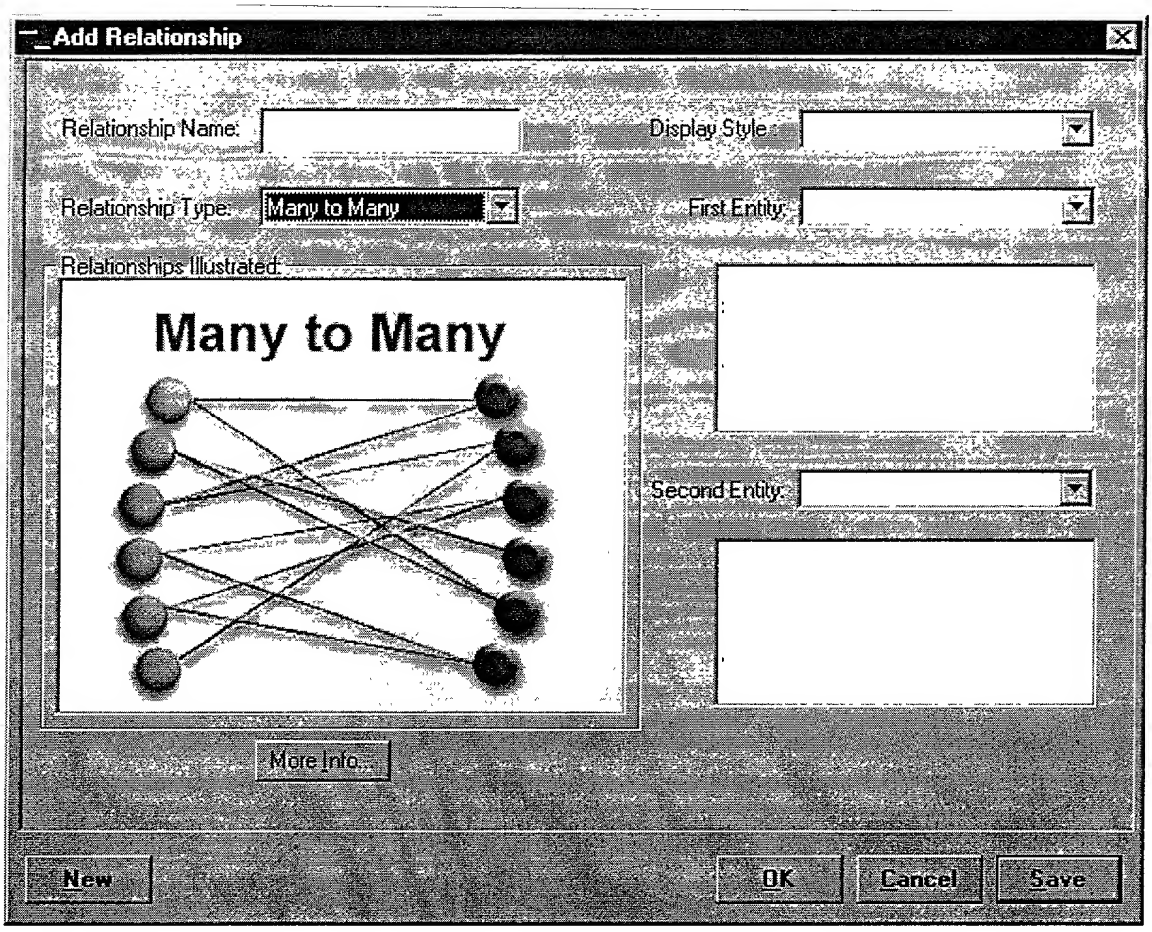

Add Relationship
Relationship Name:
Display Style:
Relationship Type:
Many to Many
First Entity:
Relationships Illustrated:
Many to Many
Second Entity:
More Info...
New
OK
Cancel
Save

Fig. 7c

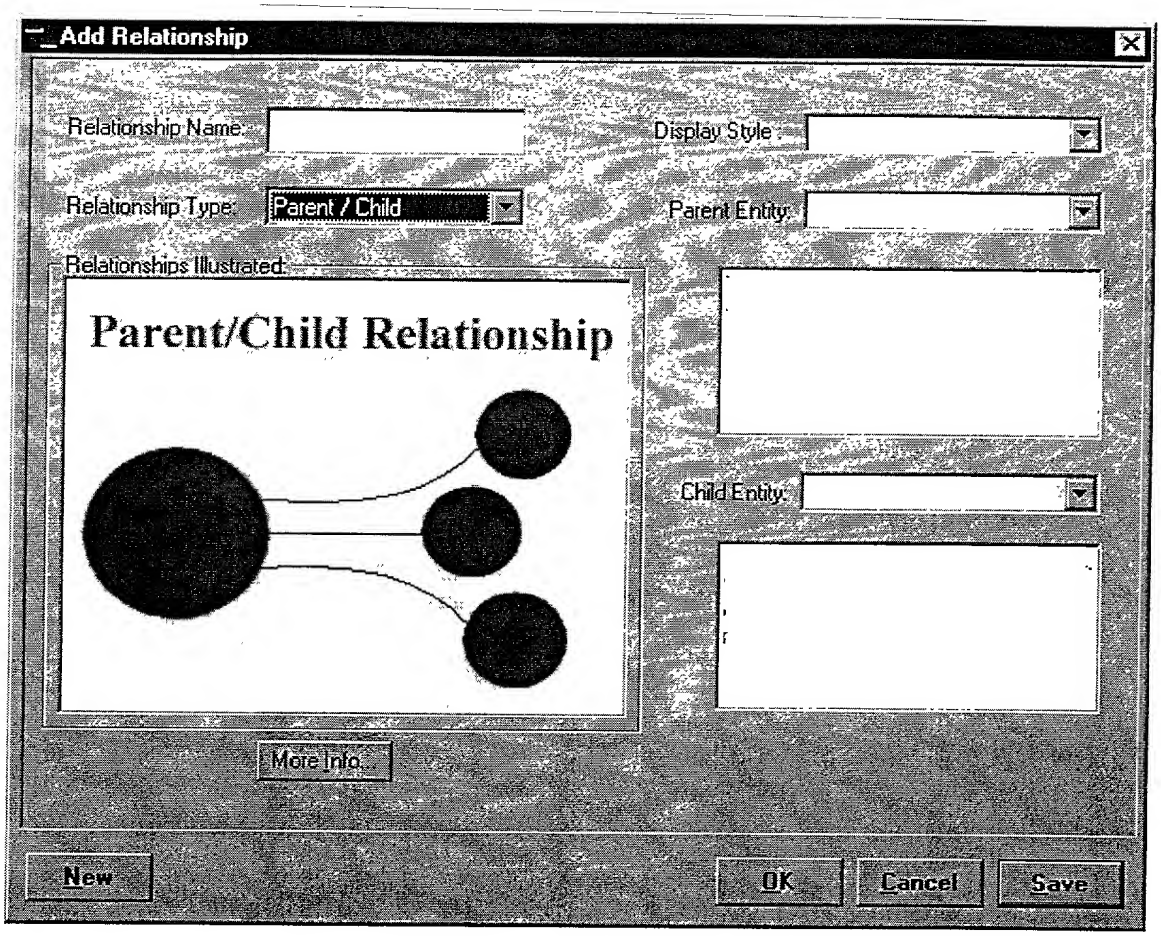

Add Relationship
Relationship Name:
Display Style:
Relationship Type:
Parent / Child
Parent Entity:
Relationships Illustrated:
Parent/Child Relationship
Child Entity:
More Info...
New
OK
Cancel
Save

Fig. 7d

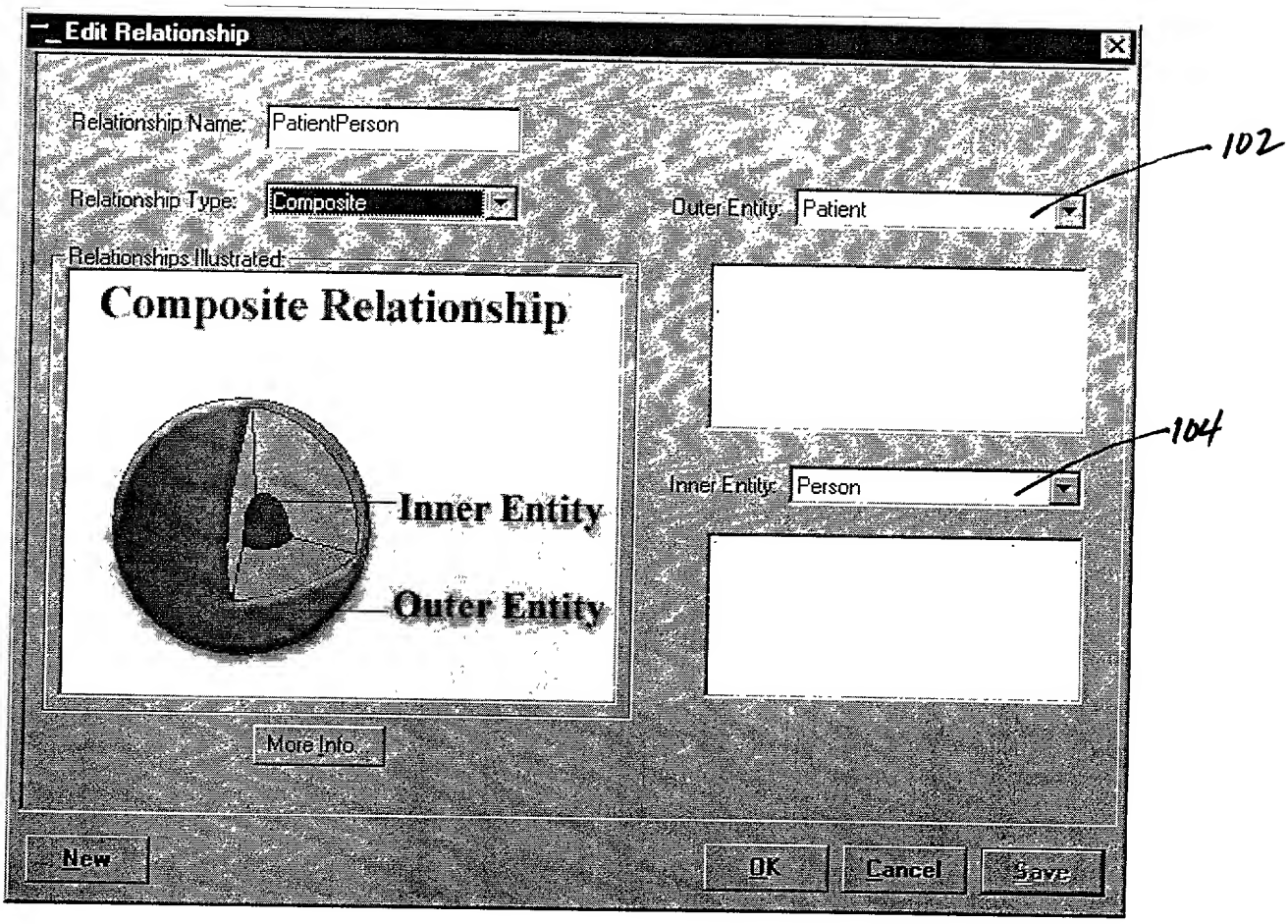

Edit Relationship
Relationship Name:
PatientPerson
Relationship Type:
Composite
Outer Entity:
Patient
102
Relationships Illustrated:
Composite Relationship
Inner Entity
Outer Entity
Inner Entity:
Person
104
More Info...
New
OK
Cancel
Save

Fig. 7e

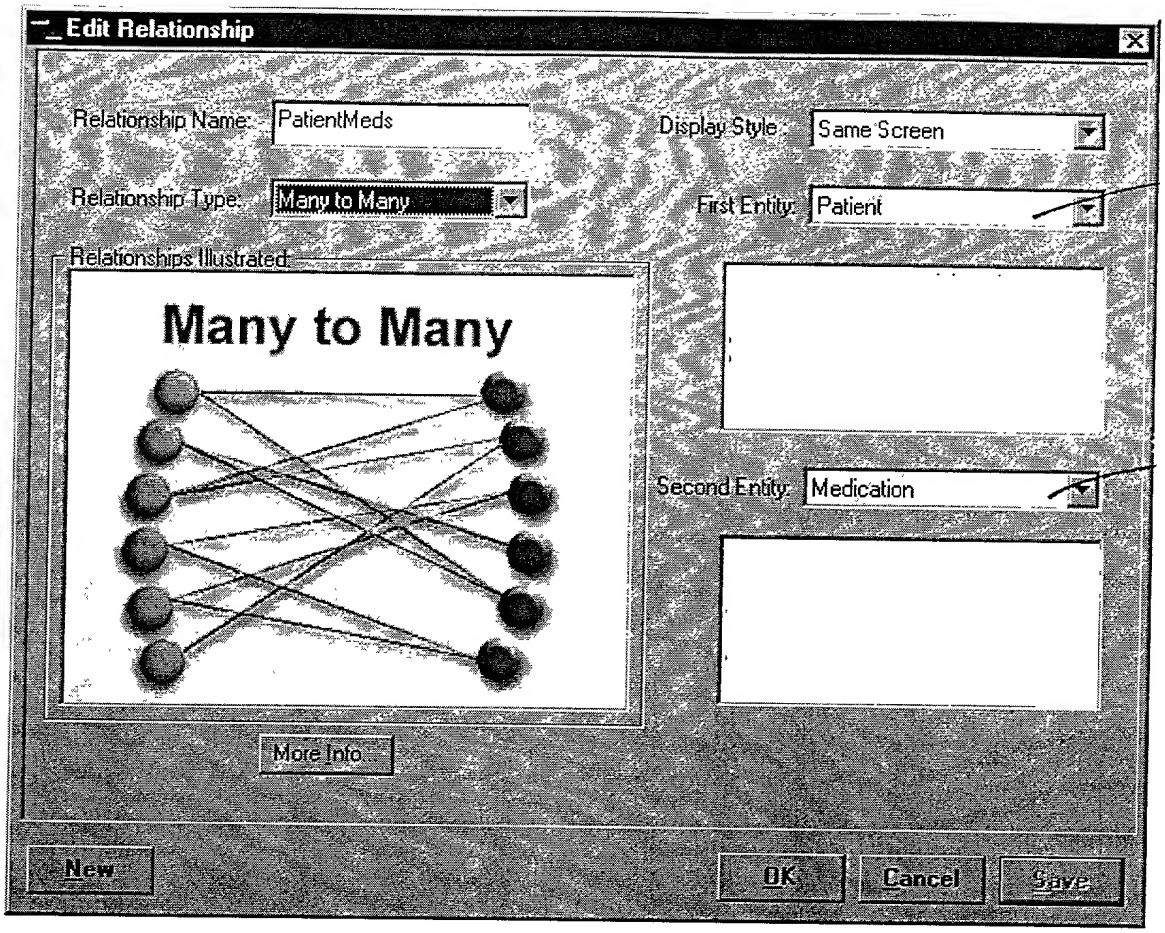


Fig. 7f

Redacted per PTO

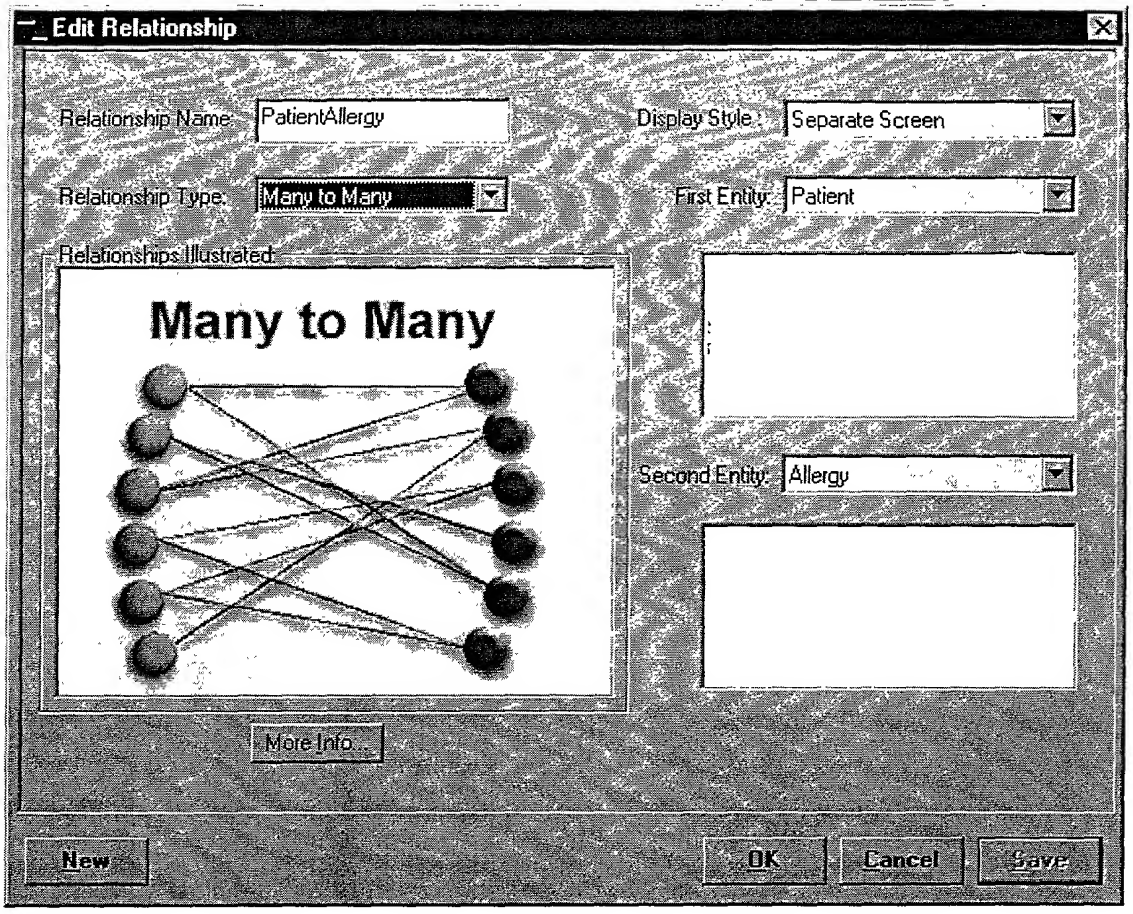


Fig. 7g

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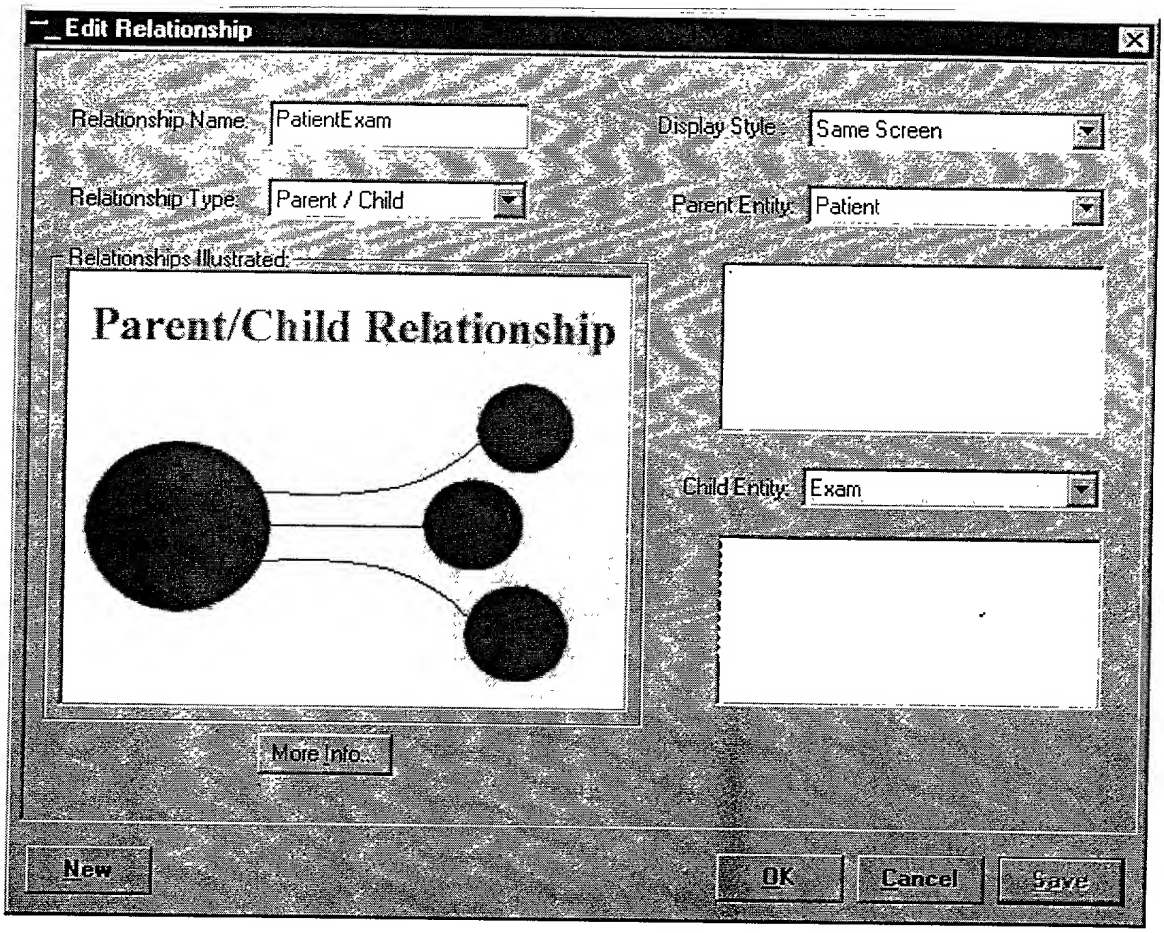

Edit Relationship
Relationship Name:
PatientExam
Display Style:
Same Screen
Relationship Type:
Parent / Child
Parent Entity:
Patient
Relationships Illustrated:
Parent/Child Relationship
Child Entity:
Exam
More Info...
New
OK
Cancel
Save

Fig. 7h

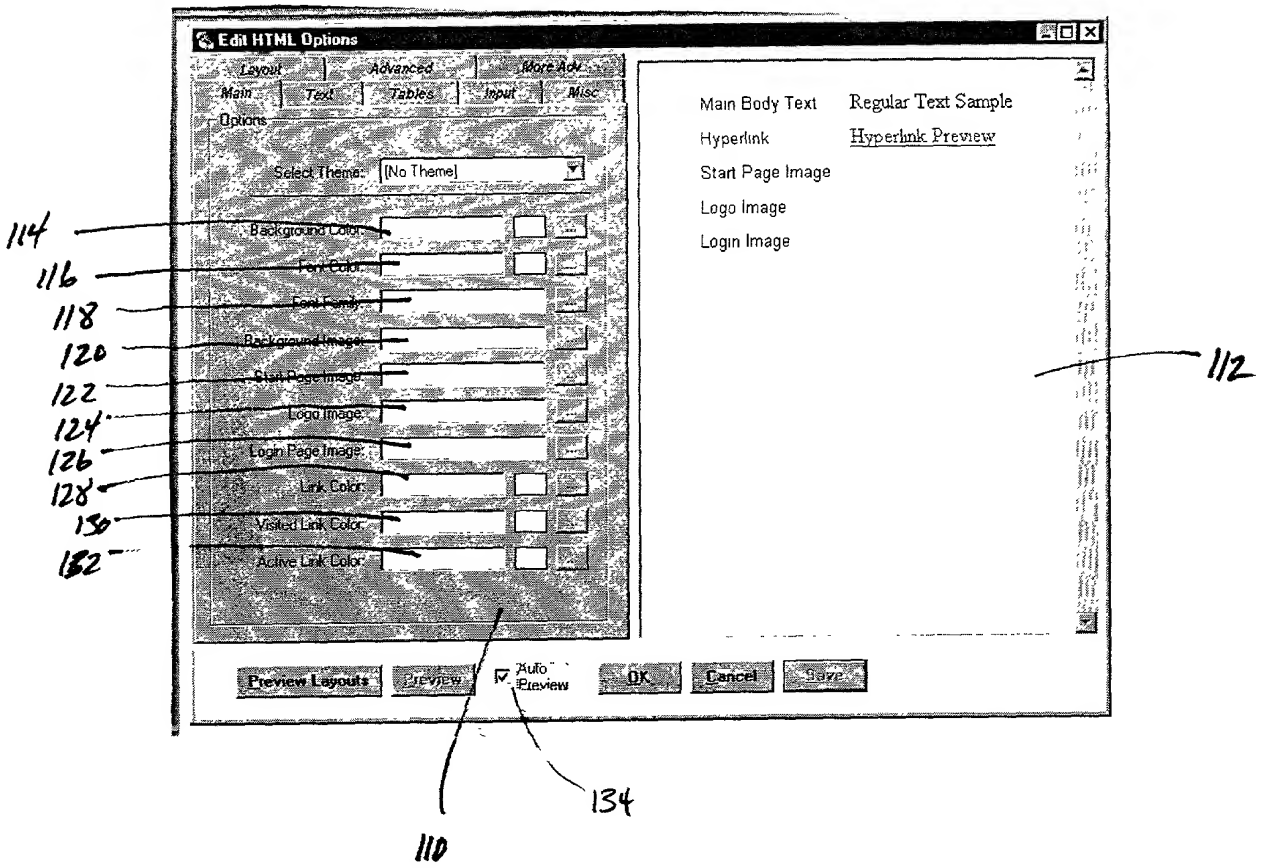

Edit HTML Options
Layout
Advanced
More Adv...
Main
Text
Tables
Input
Misc
Options
Select Theme:
[No Theme]
Background Color:
Font Color:
Font Family:
Background Image:
Start Page Image:
Logo Image:
Login Page Image:
Link Color:
Visited Link Color:
Active Link Color:
Main Body Text
Regular Text Sample
Hyperlink
Hyperlink Preview
Start Page Image
Logo Image
Login Image
Preview Layouts
Preview
Auto Preview
OK
Cancel
Save
114
116
118
120
122
124
126
128
130
132
112
134
110

Fig. 8

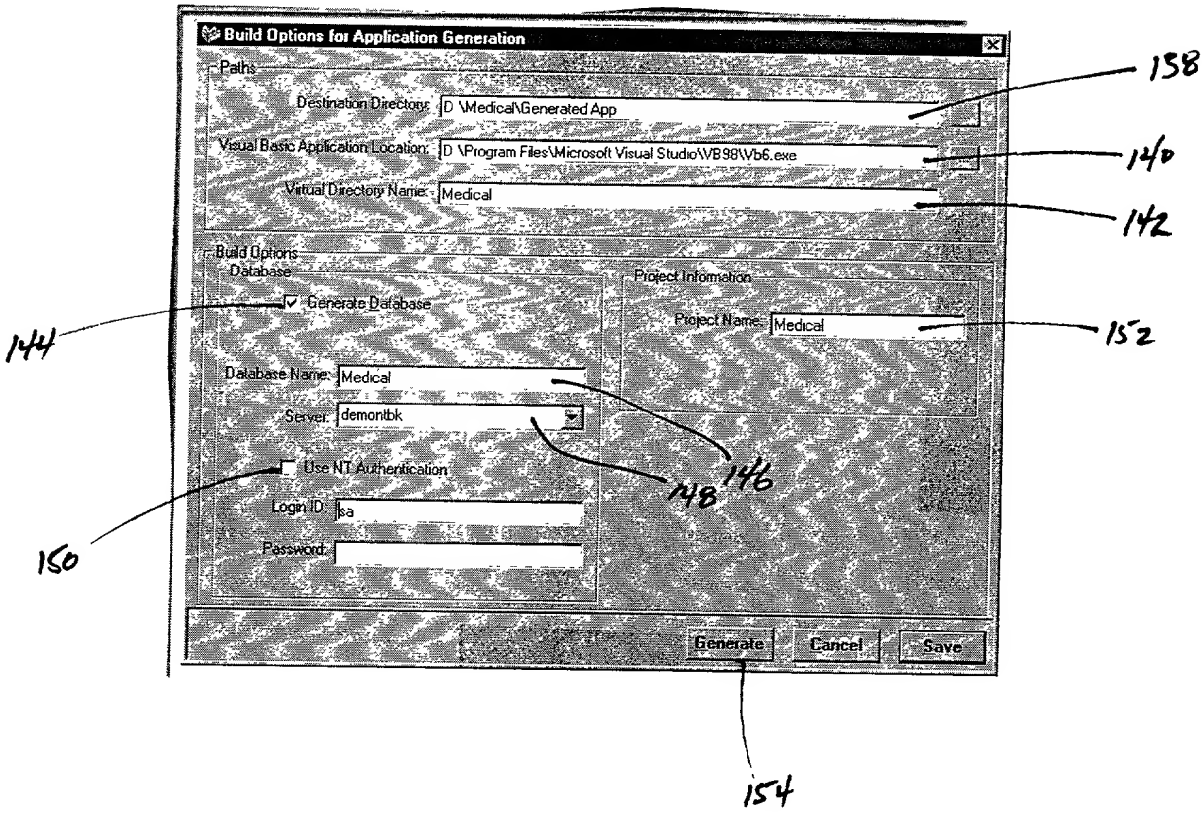
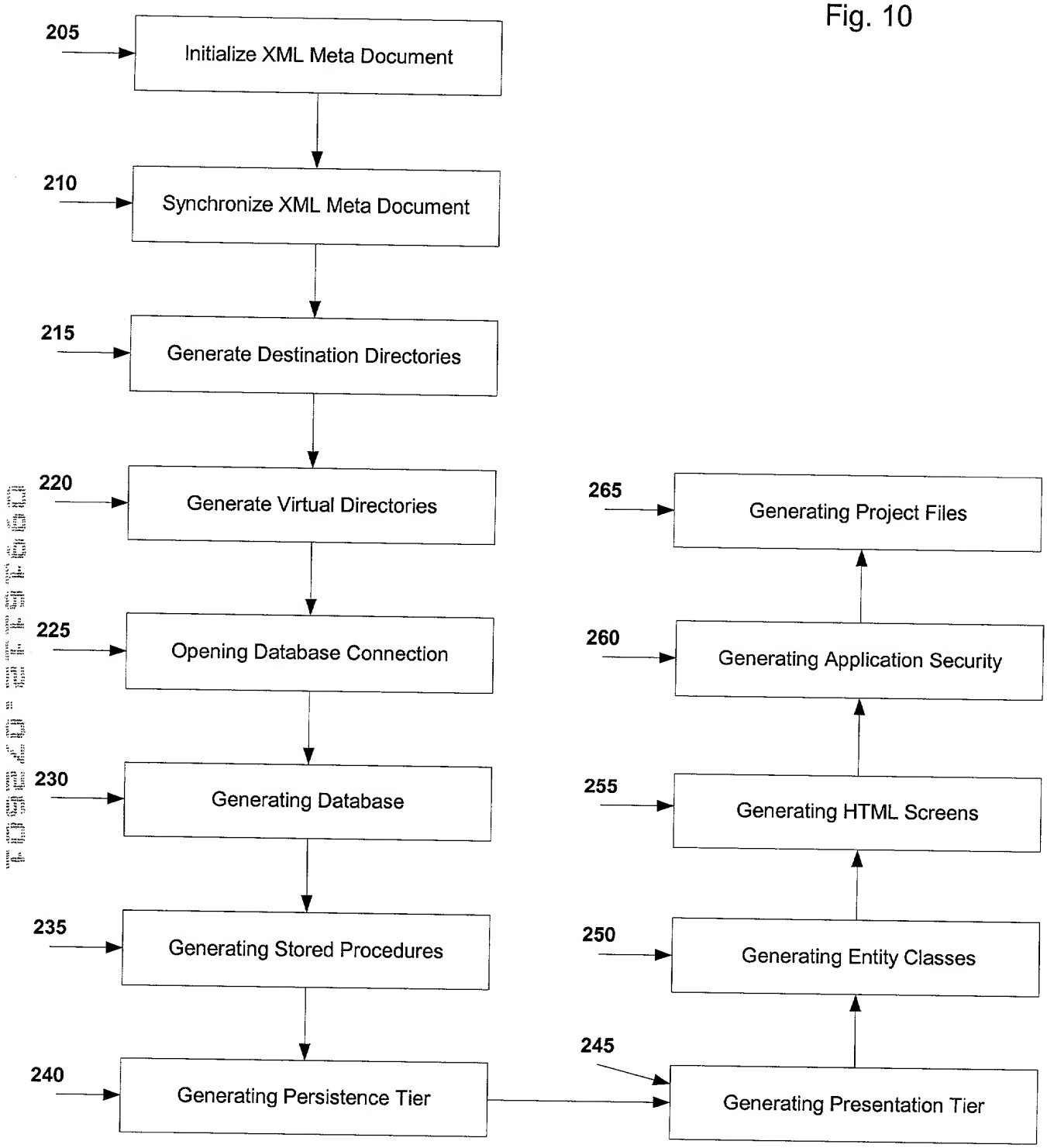

Build Options for Application Generation
Paths
Destination Directory: D:\Medical\Generated App
Visual Basic Application Location: D:\Program Files\Microsoft Visual Studio\VB98\Vb6.exe
Virtual Directory Name: Medical
Build Options
Database
Generate Database
Database Name: Medical
Server: demonitbk
Use NT Authentication
Login ID: sa
Password:
Project Information
Project Name: Medical
Generate
Cancel
Save
158
140
142
144
146
148
150
152
154

Fig. 9

Fig. 10


205
Initialize XML Meta Document
210
Synchronize XML Meta Document
215
Generate Destination Directories
220
Generate Virtual Directories
225
Opening Database Connection
230
Generating Database
235
Generating Stored Procedures
240
Generating Persistence Tier
245
Generating Presentation Tier
250
Generating Entity Classes
255
Generating HTML Screens
260
Generating Application Security
265
Generating Project Files

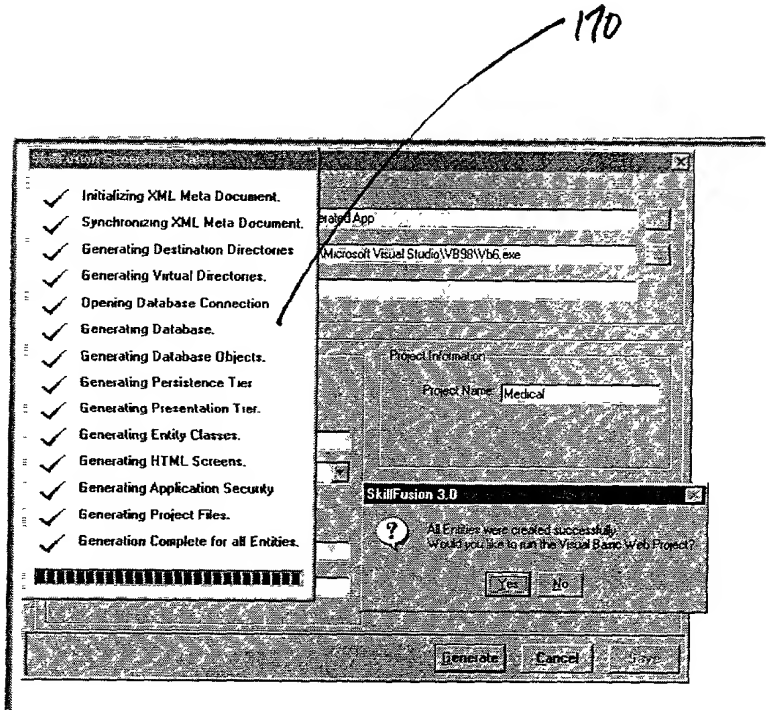

170
Initializing XML Meta Document.
Synchronizing XML Meta Document.
Generating Destination Directories
Generating Virtual Directories.
Opening Database Connection
Generating Database.
Generating Database Objects.
Generating Persistence Tier
Generating Presentation Tier.
Generating Entity Classes.
Generating HTML Screens.
Generating Application Security
Generating Project Files.
Generation Complete for all Entities.
Microsoft Visual Studio\VB98\Vb6.exe
Project Information
Project Name: Medical
SkillFusion 3.0
All Entities were created successfully
Would you like to run the Visual Basic Web Project?
Yes
No
Generate
Cancel

Fig. 11

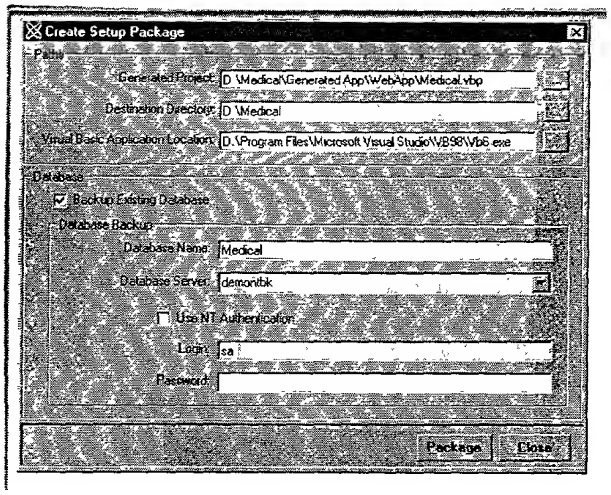

Create Setup Package
Paths
Generated Project: D:\Medical\Generated App\WebApp\Medical.vbp
Destination Directory: D:\Medical
Visual Basic Application Location: D:\Program Files\Microsoft Visual Studio\VB98\Vb6.exe
Database
Backup Existing Database
Database Backup
Database Name: Medical
Database Server: demonitbk
Use NT Authentication
Login: sa
Password:
Package
Close

Fig. 13

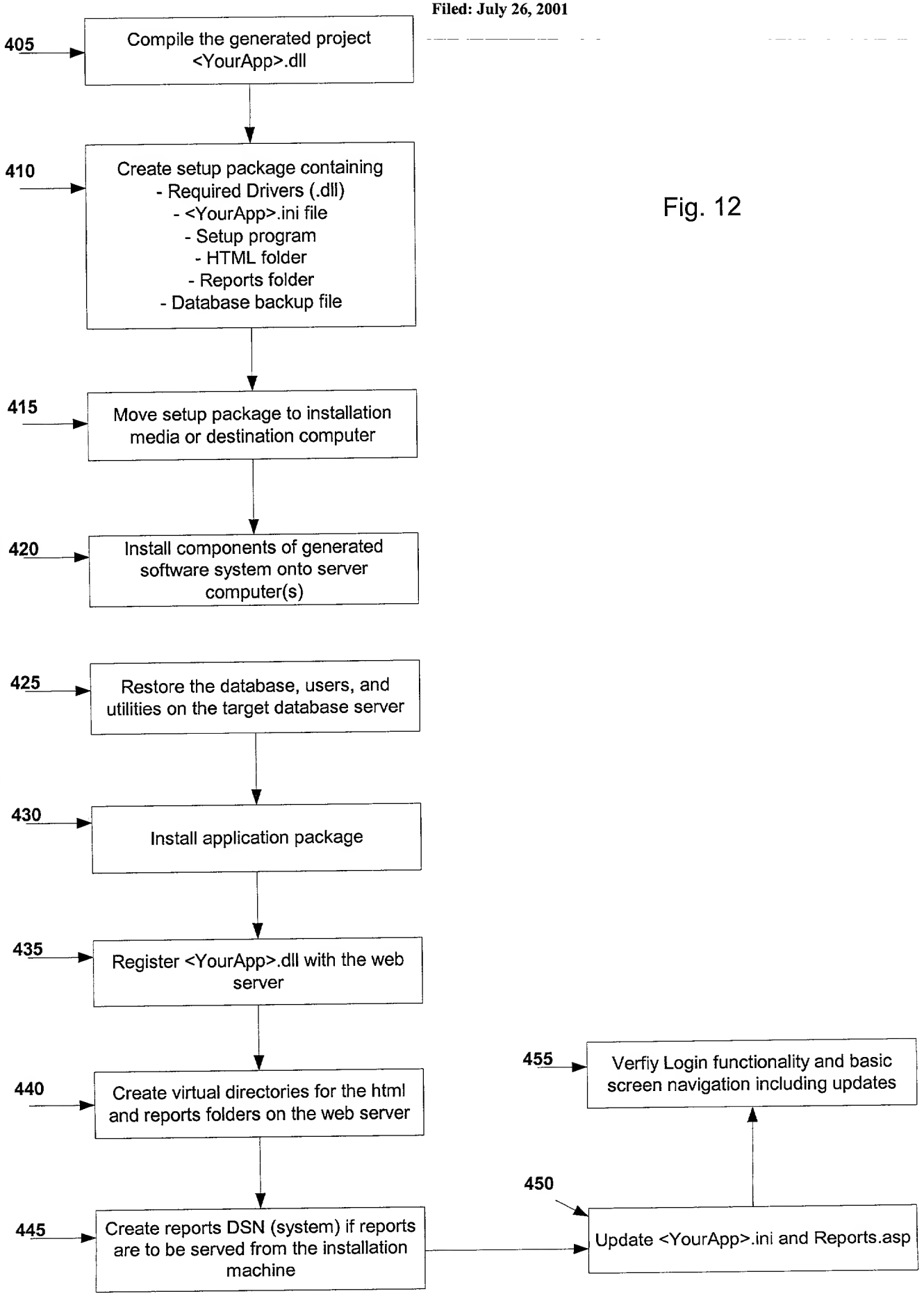

405
Compile the generated project <YourApp>.dll
410
Create setup package containing
- Required Drivers (.dll)
- <YourApp>.ini file
- Setup program
- HTML folder
- Reports folder
- Database backup file
415
Move setup package to installation media or destination computer
420
Install components of generated software system onto server computer(s)
425
Restore the database, users, and utilities on the target database server
430
Install application package
435
Register <YourApp>.dll with the web server
440
Create virtual directories for the html and reports folders on the web server
445
Create reports DSN (system) if reports are to be served from the installation machine
450
Update <YourApp>.ini and Reports.asp
455
Verfiy Login functionality and basic screen navigation including updates

Fig. 12

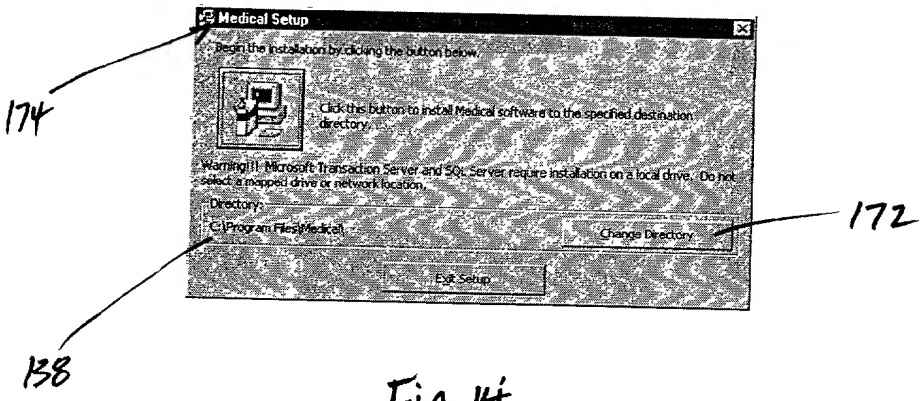

Medical Setup
Begin the installation by clicking the button below.
Click the button to install Medical software to the specified destination directory.
Warning!!! Microsoft Transaction Server and SQL Server require installation on a local drive. Do not select a mapped drive or network location.
Directory:
C:\Program Files\Medical\
Change Directory...
Exit Setup
174
172
138

Fig. 14

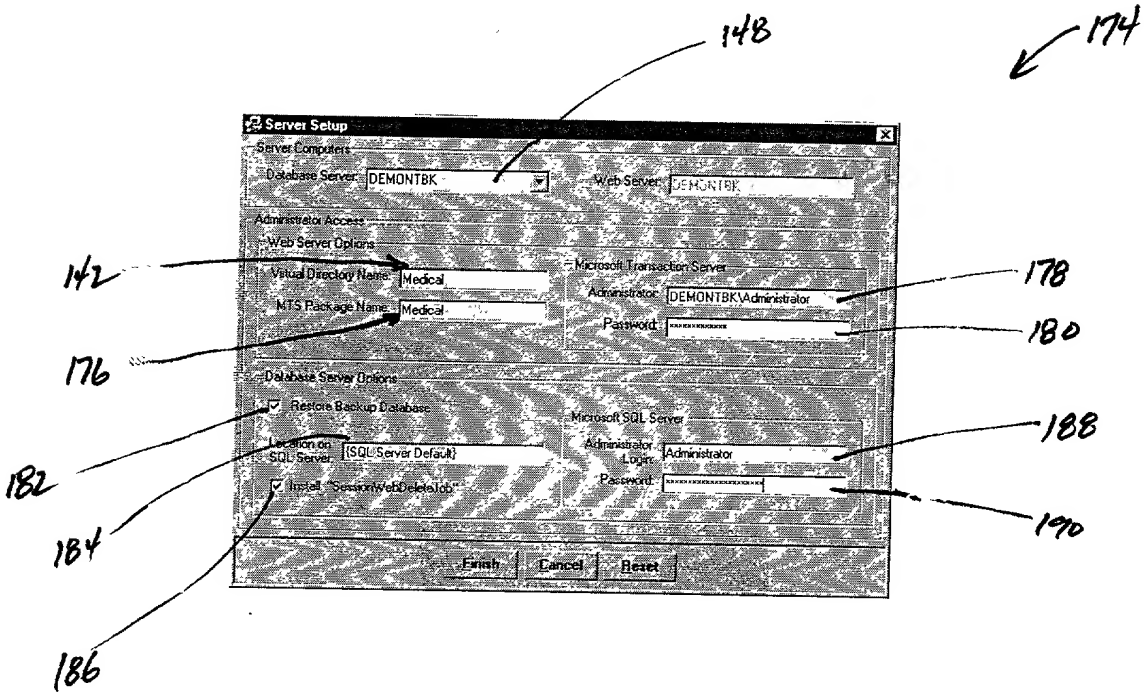

Server Setup
Server Computers
Database Server: DEMONTBK
Web Server: DEMONTBK
Administrator Access
Web Server Options
Virtual Directory Name: Medical
MTS Package Name: Medical
Microsoft Transaction Server
Administrator: DEMONTBK\Administrator
Password:
Database Server Options
Restore Backup Database
Location on SQL Server: (SQL Server Default)
Install "SessionWebDeleteJob"
Microsoft SQL Server
Administrator Login: Administrator
Password:
Finish
Cancel
Reset
148
174
142
178
176
180
182
188
184
190
186

Fig. 15

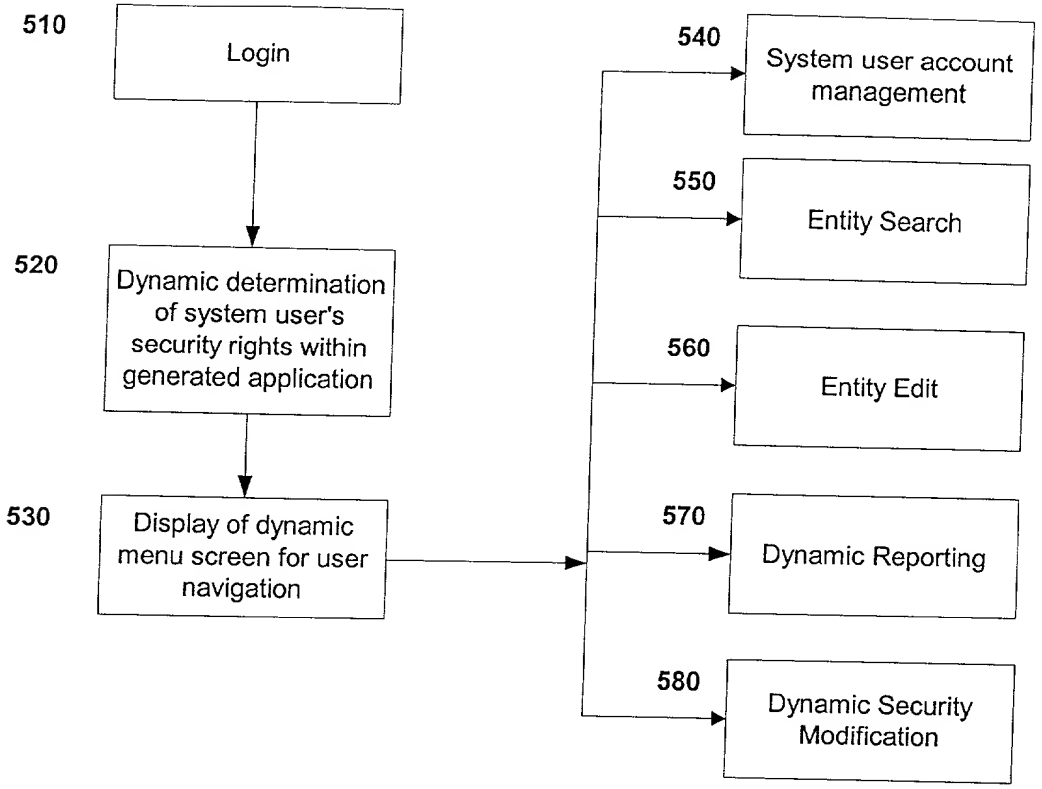

510
Login
520
Dynamic determination of system user's security rights within generated application
530
Display of dynamic menu screen for user navigation
540
System user account management
550
Entity Search
560
Entity Edit
570
Dynamic Reporting
580
Dynamic Security Modification

Fig. 16

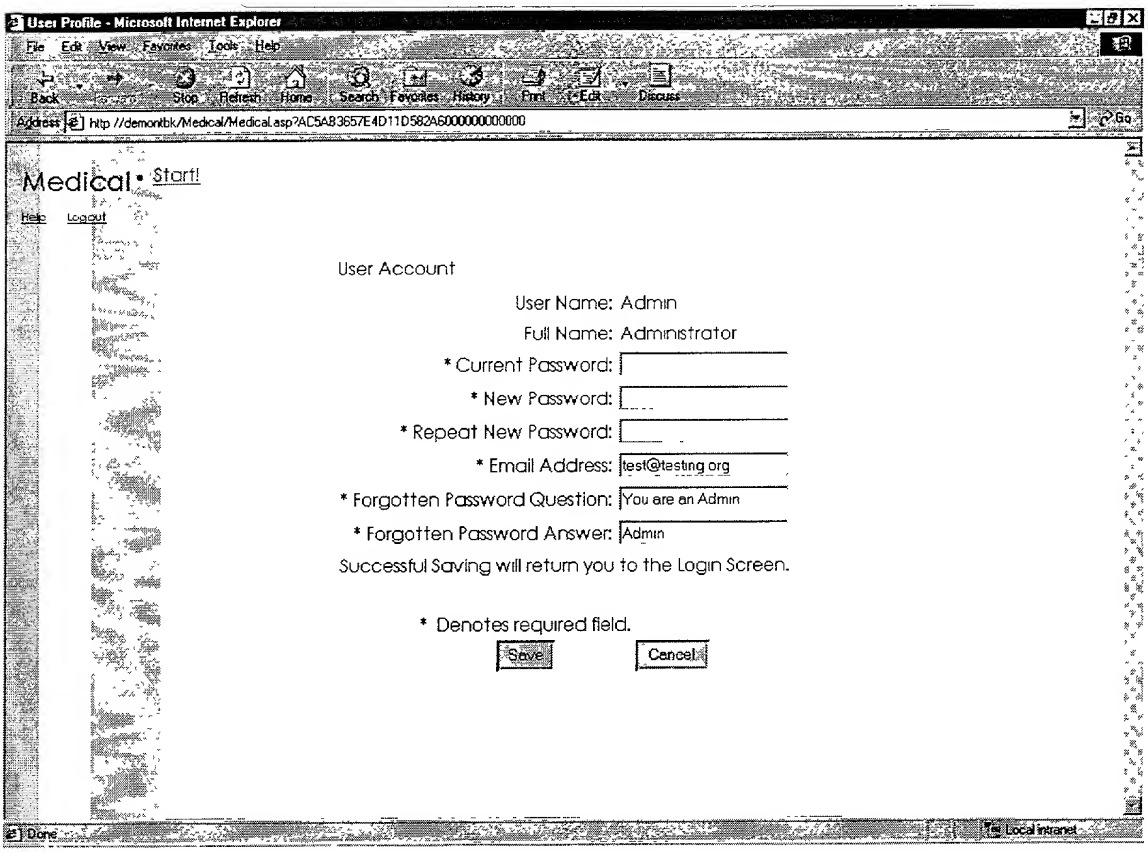


Fig. 17

Confidential

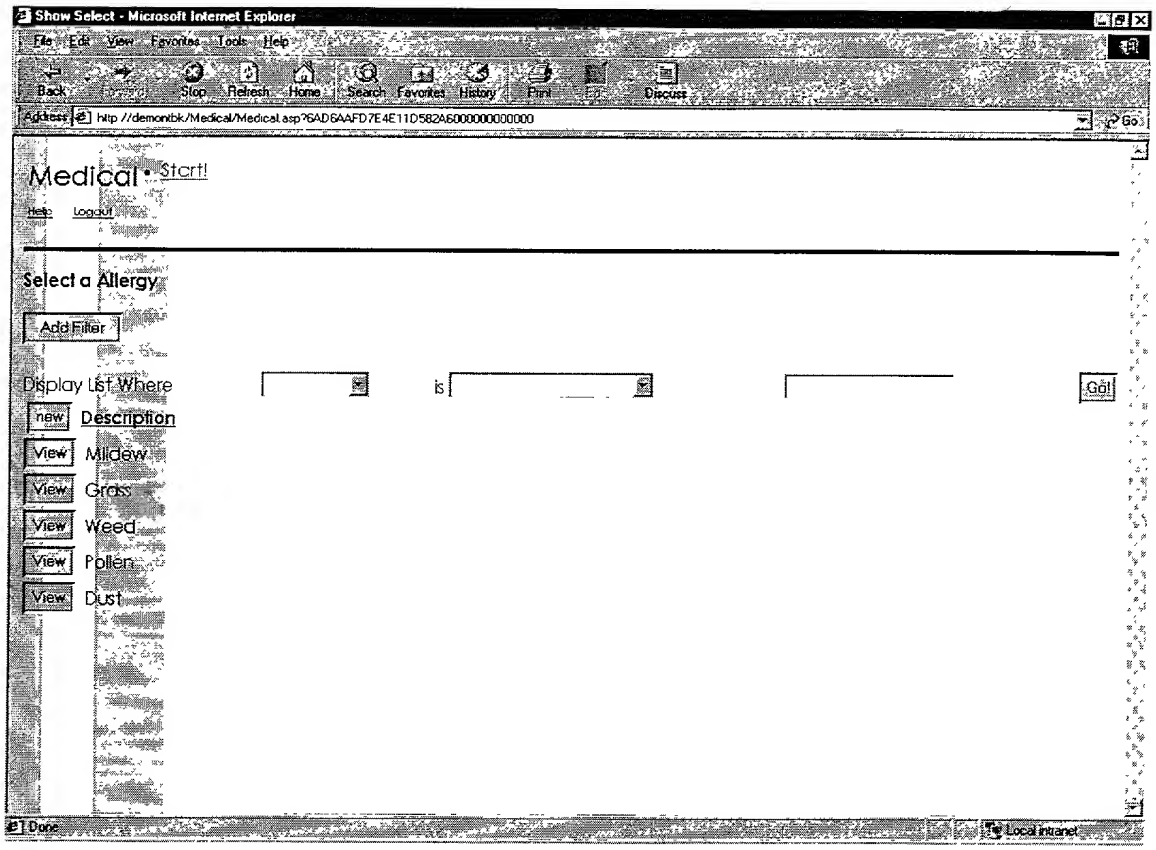

Show Select - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Stop Refresh Home Search Favorites History Print Discuss
Address http://demontbk/Medical/Medical.asp?6AD6AAFD7E4E11D582A6000000000000
Go
Medical • Start!
Help Logout
Select a Allergy
Add Filter
Display List Where is Go!
new Description
View Mildew
View Grass
View Weed
View Pollen
View Dust
Done
Local intranet

Fig. 18

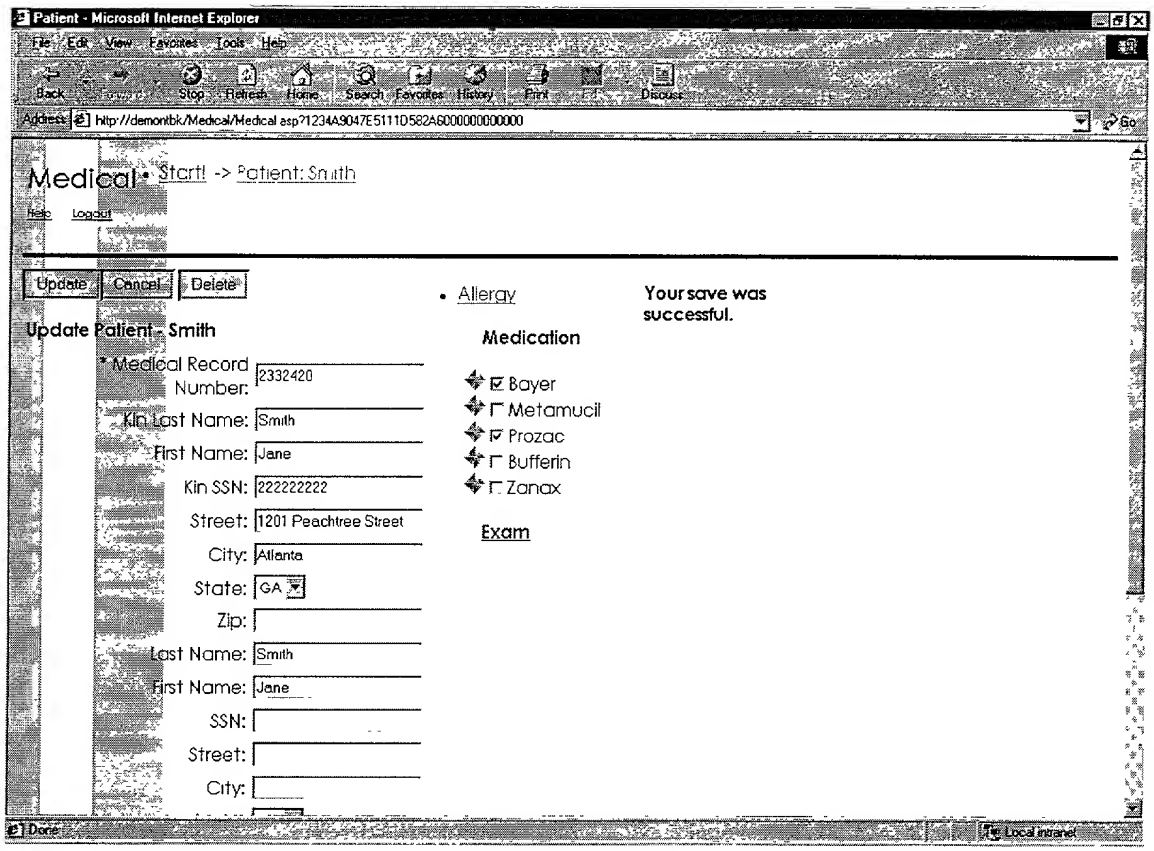

Patient - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Stop Refresh Home Search Favorites History Print Discuss
Address http://demontbk/Medical/Medical.asp?1234A9047E5111D582A60000000000
Go
Medical • Start! -> Patient: Smith
Help Logout
Update Cancel Delete
Update Patient - Smith
* Medical Record Number: 2332420
Kin Last Name: Smith
First Name: Jane
Kin SSN: 222222222
Street: 1201 Peachtree Street
City: Atlanta
State: GA
Zip:
Last Name: Smith
First Name: Jane
SSN:
Street:
City:
• Allergy
Medication
Bayer
Metamucil
Prozac
Bufferin
Zanax
Exam
Your save was successful.
Done
Local intranet

Fig. 19